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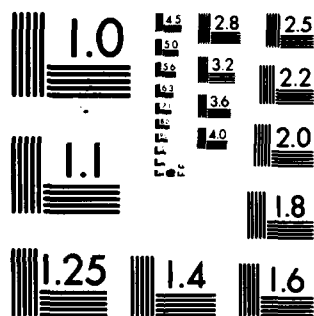
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/6 4/2
12829C LANCE, MISSILE NUMBER 3312, ROUND NUMBER 336-ESL, 24 SEP--ETC(U)
SEP 79

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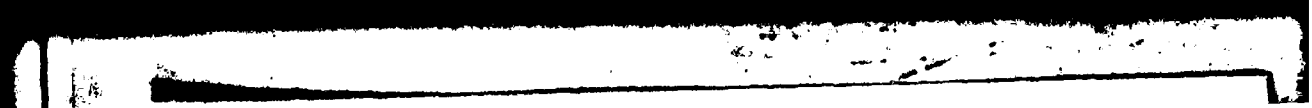
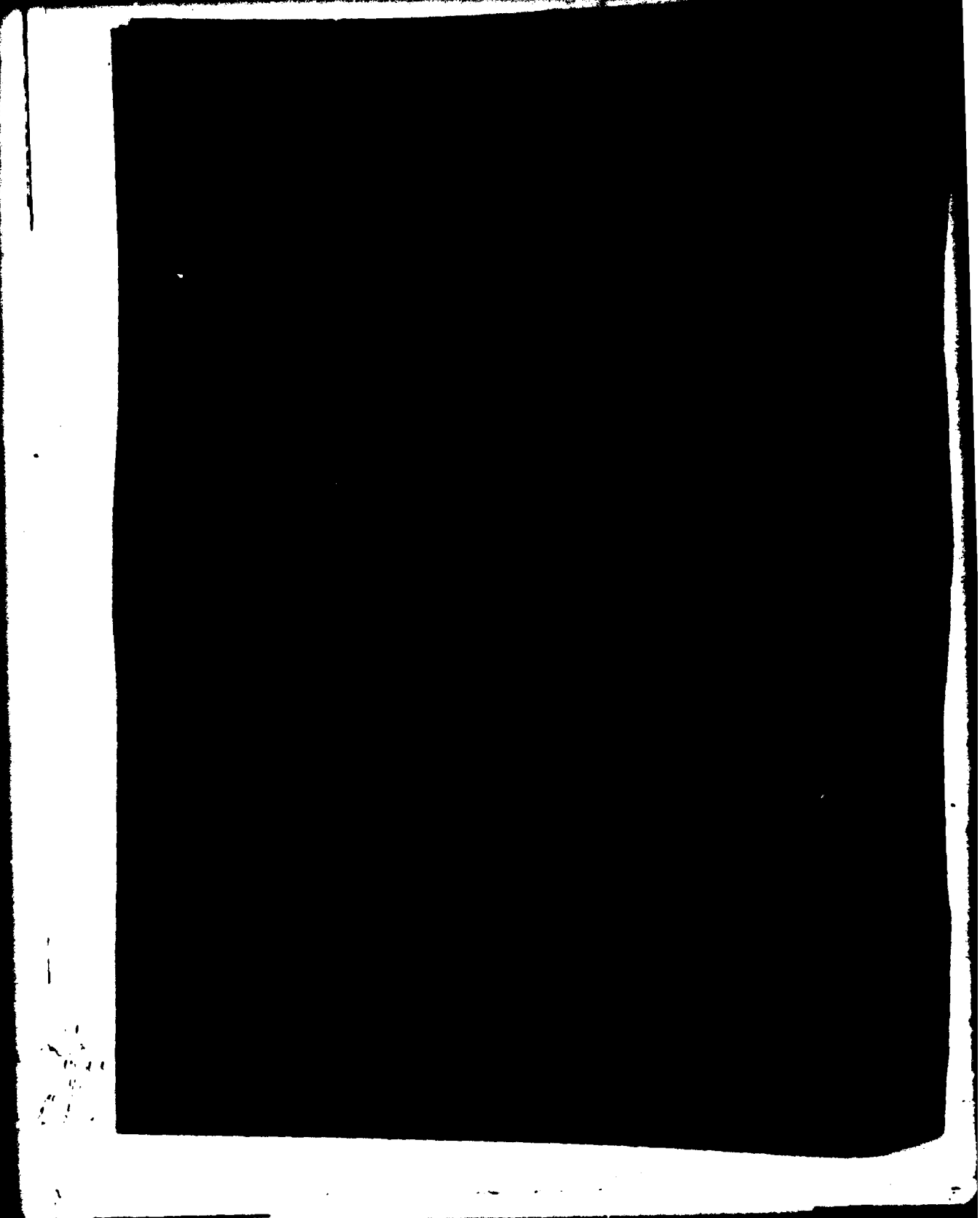
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-1073	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12829C LANCE, Missile Number 3312, Round Number 336-ESL, 24 September 1979.		5. TYPE OF REPORT & PERIOD COVERED Meteorological data rept.
7. AUTHOR(s) White Sands Meteorological Team		8. CONTRACT OR GRANT NUMBER(s) 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12829C LANCE, Missile Number 3312, Round Number 336-ESL are presented in tabular form.		

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INTRODUCTION

12829C LANCE, Missile Number 3312, Round Number 336-ESL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1432 MDT, 24 September 1979. The scheduled launch time was 1430 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RPTS T-9 pibal observation at:

SITE AND ALTITUDE

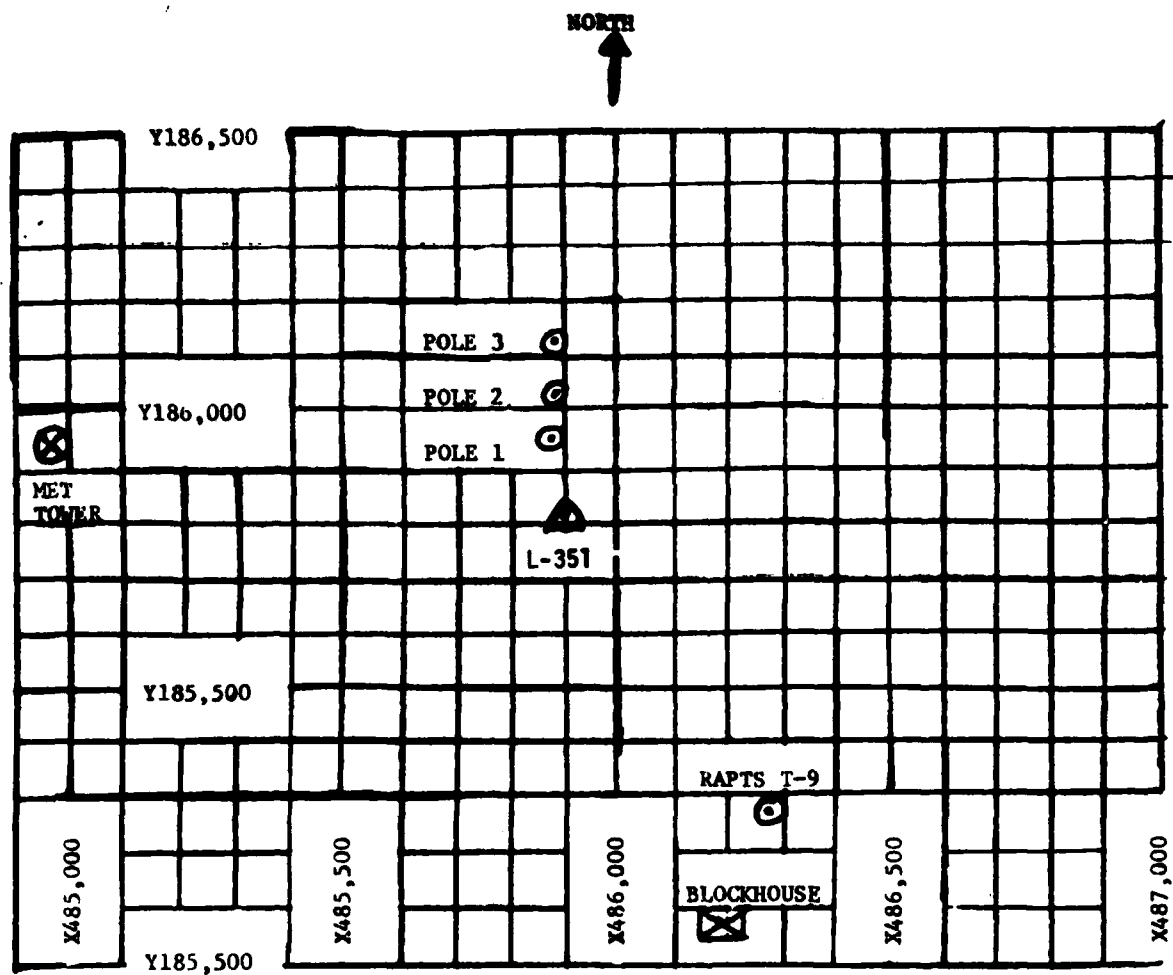
LC-33 2160 Meters and 3690 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible feet in 500-foot increments.

SITE AND TIME

WSD 1310 MST
NW30 1245 MST
JAL 1500 MST

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Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or special
A23	CP



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 83.6 ft
3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observations taken at 1430 MDT,
24 September 1979, at LC-33, 12829C LANCE,
Missile Number 3312, Round Number 336-ESL.

ELEVATION	3977.30	FT/MSL
PRESSURE	883.2	MBS
TEMPERATURE	31.2	°C
RELATIVE HUMIDITY	17	%
DEW POINT	3.3	°C
DENSITY	1006	GM/M ³
WIND SPEED	03	KTS
WIND DIRECTION	145	DEGREES
CLOUD COVER	2	Cu

GSRS PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-33 DATE 24 September 1979 TIME 1420 MDT
 RELEASED POINT COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3977.30
 MISSILE TYPE 12829C LANCE MISSILE NO. 3312 ROUND NO. 336-ESL
 MISSILE LAUNCHED FROM LC-33 DATE 24 September 1979 TIME 1432 MDT

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHT - METERS AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC		CALM	600	075	04	1200	242	01
30		CALM	630	070	04	1230	224	02
60		CALM	660	064	04	1260	206	03
90		CALM	690	058	03	1290	188	03
120		CALM	720	052	03	1320	169	03
150		CALM	750	046	03	1350	159	04
180		CALM	780	039	03	1380	149	04
210		CALM	810	032	03	1410	139	04
240		CALM	840	025	03	1440	128	04
270	106	02	870	014	03	1470	127	06
300	091	03	900	003	03	1500	126	06
330	076	04	930	352	03	1530	125	08
360	060	06	960	341	02	1560	124	09
390	069	06	990	333	02	1590	122	09
420	077	05	1020	324	02	1620	119	09
450	086	05	1050	316	02	1650	117	09
480	094	04	1080	307	02	1680	114	09
510	090	04	1110	291	02	1710	115	09
540	085	04	1140	275	02	1740	115	09
570	080	04	1170	259	02	1770	116	09

RELEASED FROM LC-33

DATE 24 September 1979

TIME 1420 MDT

[illegible][illegible][illegible]

GSRS PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM LC-33 DATE 24 September 1979 TIME 1432 MDT
 RELEASED POINT COORDINATES (WSTM) X= 486.037.24 Y= 182.350.16 H= 3977.30
 MISSILE TYPE 12829C LANCE MISSILE NO. 3312 ROUND NO. 336 FSI
 MISSILE LAUNCHED FROM LC-33 DATE 24 September 1979 TIME 1432 MDT

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHT - METERS AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	145	03
30	143	02
60	140	02
90	138	01
120	135	01
150	106	01
180	077	02
210	048	03
240	018	03
270	019	03
300	020	03
330	021	03
360	021	03
390	040	02
420	058	02
450	077	01
480	095	01
510	136	01
540	177	02
570	218	03

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
600	259	03
630	268	03
660	277	03
690	286	02
720	294	02
750	338	02
780	021	02
810	065	02
840	108	02
870	093	02
900	078	02
930	063	02
960	047	02
990	056	02
1020	065	03
1050	074	04
1080	082	04
1110	083	04
1140	084	04
0070	085	04

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
1200	086	04
1230	087	05
1260	087	05
1290	087	06
1320	087	06
1350	092	07
1380	096	08
1410	100	09
1440	104	09
1470	109	09
1500	114	09
1530	119	09
1560	124	09
1590	124	09
1620	124	09
1650	124	09
1680	123	09
1710	125	09
1740	127	09
1770	129	09

[illegible]

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

SIGNIFICANT LEVEL DATA
2670020363
WHITE SANDS

TABLE 4

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
883.6	30.9	10.8	29.0
850.0	26.1	.7	19.0
768.4	17.6	-2.0	25.0
700.0	10.6	-5.0	31.0
629.2	3.5	-14.2	26.0
585.8	-2	-23.7	15.0
569.0	-5	-24.7	14.0
500.0	-8.0	-30.7	14.0
456.8	-11.5	-34.3	13.0
400.0	-18.2	-38.4	15.0
317.6	-32.1	-49.3	16.0
300.0	-33.9		
264.0	-46.5		
250.0	-42.4		
241.8	-44.5		
226.0	-46.5		
200.0	-52.4		
150.0	-63.1		
126.8	-69.3		
118.2	-72.0		
100.0	-73.2		
80.0	-68.6		
74.2	-58.0		
70.0	-63.9		
55.4	-58.5		
53.2	-55.9		
50.0	-57.3		
32.8	-51.5		
30.0	-52.4		
20.0	-49.7		
16.4	-47.9		
15.4	-43.6		
10.5	-42.2		

STATION/ALTITUDE 3489.00 FEET MSL
24 SEP 79
ASCENSION NO. 383

STATION ALTITUDE 3989.00 FEET MSL
24 SEP. 79 1310 HRS MST
ASCENSION NO. 363

UPPER AIR DATA
2670020363
WHITE SANDS

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/S	DIRECTION DEGREES (T)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	883.8	30.9	29.0	1007.0	661.2	0	0	1.000278
4000.0	883.5	30.9	28.9	1006.8	661.1	224.0	0	1.000277
4500.0	868.4	28.7	24.5	997.9	678.3	224.0	0.3	1.000263
5000.0	853.7	26.6	20.1	984.9	675.6	224.0	0.6	1.000250
5500.0	836.9	25.0	19.8	977.4	675.6	224.0	1.0	1.000245
6000.0	824.3	23.5	20.8	965.2	671.9	224.0	1.3	1.000241
6500.0	809.9	22.0	21.9	953.3	670.2	170.8	0.9	1.000238
7000.0	795.8	20.6	22.9	941.4	668.5	116.8	1.8	1.000234
7500.0	781.9	19.1	24.0	929.8	668.8	103.3	3.1	1.000231
8000.0	768.3	17.6	25.0	918.3	665.1	98.2	4.5	1.000227
8500.0	754.6	16.2	26.2	906.2	663.5	105.0	5.1	1.000224
9000.0	741.1	14.9	27.3	894.2	662.0	115.2	5.8	1.000220
9500.0	727.8	13.5	28.5	882.4	660.4	109.7	6.7	1.000217
10000.0	714.8	12.2	29.7	870.8	658.8	101.4	7.9	1.000214
10500.0	702.0	10.8	30.8	859.4	657.2	92.3	9.4	1.000210
11000.0	689.2	9.6	30.3	847.6	655.7	89.3	10.2	1.000206
11500.0	676.6	8.3	29.4	835.8	654.2	87.1	10.7	1.000202
12000.0	664.2	7.1	28.5	824.2	652.7	82.3	11.1	1.000198
12500.0	652.0	5.9	27.7	812.8	651.2	79.3	11.3	1.000194
13000.0	640.0	4.6	26.8	801.6	649.7	78.2	11.1	1.000190
13500.0	628.3	3.4	25.8	790.4	648.3	77.5	11.8	1.000186
14000.0	616.5	2.4	22.9	778.5	647.1	79.0	12.6	1.000182
14500.0	605.0	1.5	20.0	766.8	645.9	85.9	13.6	1.000178
15000.0	593.7	0.5	17.1	755.3	644.7	92.8	14.7	1.000174
15500.0	582.6	-0.3	14.8	743.2	643.7	101.4	16.1	1.000170
16000.0	571.6	-0.5	14.2	729.8	643.5	107.5	17.2	1.000167
16500.0	560.7	-1.4	14.0	718.3	642.4	111.1	17.7	1.000164
17000.0	550.0	-2.5	14.0	707.5	641.1	110.2	16.9	1.000161
17500.0	539.5	-3.6	14.0	696.9	639.8	109.5	15.5	1.000159
18000.0	529.1	-4.7	14.0	686.4	638.4	102.5	14.8	1.000156
18500.0	519.0	-5.8	14.0	676.1	637.1	99.4	14.2	1.000154
19000.0	509.1	-7.0	14.0	666.0	635.7	100.1	14.3	1.000151
19500.0	499.4	-8.0	14.0	656.0	634.4	99.8	13.3	1.000149
20000.0	489.6	-8.8	13.8	645.1	633.5	97.8	10.8	1.000146
20500.0	480.1	-9.6	13.6	634.3	632.6	92.1	7.3	1.000143
21000.0	470.7	-10.3	13.3	623.8	631.7	89.9	3.3	1.000141
21500.0	461.5	-11.1	13.1	613.4	630.7	350.4	2.4	1.000139
22000.0	452.4	-12.0	13.1	603.4	629.7	314.7	4.9	1.000136
22500.0	443.5	-13.0	13.4	593.7	628.4	313.8	7.0	1.000134
23000.0	434.6	-14.0	13.7	584.1	627.2	316.8	8.7	1.000132

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

UPPER AIR DATA
2070020300
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
24 SEP. 79 1310 HRS MST
ASCENSION NO. 303

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	420.0	-15.0	14.1	574.8	626.0	319.5	10.3	1.000130
24000.0	417.5	-16.0	14.4	565.6	624.7	321.0	11.8	1.000127
24500.0	409.2	-17.0	14.7	550.5	623.5	319.0	13.5	1.000125
25000.0	401.1	-18.1	15.0	547.0	622.3	308.7	15.4	1.000123
25500.0	392.8	-19.3	15.1	539.0	620.8	307.4	17.0	1.000121
26000.0	384.7	-20.6	15.2	530.5	619.2	307.5	18.1	1.000119
26500.0	376.7	-21.8	15.3	522.1	617.7	312.1	17.7	1.000117
27000.0	368.9	-23.1	15.4	513.9	616.1	310.5	17.4	1.000115
27500.0	361.3	-24.3	15.4	505.8	614.8	320.2	17.1	1.000113
28000.0	353.8	-25.6	15.5	497.8	613.0	323.8	17.6	1.000112
28500.0	346.5	-26.9	15.6	490.0	611.4	320.0	19.2	1.000110
29000.0	339.3	-28.1	15.7	482.4	609.9	320.4	20.5	1.000108
29500.0	332.3	-29.4	15.8	474.8	608.3	323.5	21.5	1.000106
30000.0	325.4	-30.6	15.9	467.4	606.7	318.1	23.0	1.000105
30500.0	318.7	-31.9	16.0	460.2	605.1	311.8	25.2	1.000103
31000.0	311.9	-32.7	10.9**	451.8	604.2	308.0	28.2	1.000101
31500.0	305.3	-33.3	4.9**	443.5	603.3	307.0	31.6	1.000099
32000.0	298.7	-34.1		435.4	602.3	300.0	33.3	1.000097
32500.0	292.2	-35.3		427.9	600.9	305.2	34.3	1.000095
33000.0	285.9	-36.4		420.6	599.4	300.0	36.2	1.000094
33500.0	279.7	-37.5		413.5	598.0	308.0	38.5	1.000092
34000.0	273.6	-38.7		406.5	596.6	308.5	39.4	1.000091
34500.0	267.7	-39.8		399.0	595.1	307.4	39.9	1.000089
35000.0	261.8	-40.8		392.5	593.8	305.9	38.6	1.000087
35500.0	256.0	-41.6		385.1	592.8	304.1	36.9	1.000086
36000.0	250.3	-42.4		377.9	591.8	304.5	38.3	1.000084
36500.0	244.8	-43.7		371.7	590.1	304.0	40.0	1.000083
37000.0	239.3	-44.8		365.1	588.7	304.7	42.3	1.000081
37500.0	233.9	-45.5		357.9	587.8	304.7	44.5	1.000080
38000.0	228.6	-46.2		350.9	586.9	305.1	47.3	1.000078
38500.0	223.4	-47.0		344.3	585.8	305.5	50.1	1.000077
39000.0	218.3	-48.2		338.1	584.5	305.0	53.3	1.000075
39500.0	213.3	-49.3		332.0	582.9	304.0	56.0	1.000074
40000.0	208.4	-50.4		326.0	581.4	303.5	55.8	1.000073
40500.0	203.7	-51.5		320.1	580.0	302.0	55.3	1.000071
41000.0	199.0	-52.6		314.3	578.6	300.5	53.8	1.000070
41500.0	194.2	-53.5		308.1	577.4	299.1	52.0	1.000069
42000.0	189.6	-54.4		302.0	576.2	298.5	49.4	1.000067
42500.0	185.1	-55.3		296.0	575.0	297.4	47.8	1.000066
43000.0	180.7	-56.2		290.2	573.9	296.6	48.0	1.000065

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
24 SEP. 79 1310 HRS MST
ASCENSION NO. 363

UPPER AIR DATA
2070020363
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
43500.0	176.4	-57.1		284.4	572.7	295.8	47.8	1.000063
44000.0	172.2	-58.0		276.8	571.5	294.9	46.9	1.000062
44500.0	168.2	-58.9		273.3	570.3	293.6	45.4	1.000061
45000.0	164.2	-59.7		268.0	569.1	291.5	43.2	1.000060
45500.0	160.3	-60.6		262.7	567.9	290.7	42.5	1.000059
46000.0	156.5	-61.5		257.6	566.7	292.0	43.4	1.000057
46500.0	152.7	-62.4		252.5	565.5	293.6	43.3	1.000056
47000.0	149.1	-63.4		247.5	564.3	296.7	41.4	1.000055
47500.0	145.4	-64.4		242.6	562.9	299.5	39.4	1.000054
48000.0	141.8	-65.4		237.8	561.5	300.7	36.6	1.000053
48500.0	138.3	-66.4		233.0	560.2	301.7	33.9	1.000052
49000.0	134.9	-67.4		228.4	558.8	299.9	31.1	1.000051
49500.0	131.5	-68.4		223.9	557.4	297.7	28.6	1.000050
50000.0	128.3	-69.4		219.4	556.1	294.2	28.6	1.000049
50500.0	125.0	-70.2		214.7	555.0	290.9	28.6	1.000048
51000.0	121.9	-71.0		210.1	553.9	288.0	27.4	1.000047
51500.0	118.8	-71.8		205.6	552.8	285.0	26.4	1.000046
52000.0	115.8	-72.1		200.7	552.5	285.0	26.2	1.000045
52500.0	112.8	-72.3		195.8	552.1	284.9	26.0	1.000044
53000.0	110.0	-72.5		191.0	551.8	291.2	27.0	1.000043
53500.0	107.2	-72.7		186.3	551.6	297.1	28.4	1.000041
54000.0	104.4	-72.9		181.7	551.5	300.2	23.2	1.000040
54500.0	101.8	-73.1		177.2	551.1	304.6	17.2	1.000039
55000.0	99.2	-73.0		172.7	551.1	303.0	11.1	1.000038
55500.0	96.7	-72.5		167.9	551.6	285.8	5.1	1.000037
56000.0	94.3	-72.0		163.2	552.6	273.3	3.6	1.000036
56500.0	91.9	-71.5		158.7	553.3	300.1	7.9	1.000035
57000.0	89.6	-70.9		154.3	554.0	306.9	11.9	1.000034
57500.0	87.3	-70.4		150.0	554.7	306.8	10.7	1.000033
58000.0	85.1	-69.9		145.8	555.4	306.6	9.5	1.000032
58500.0	82.9	-69.3		141.8	556.2	278.7	4.7	1.000032
59000.0	80.8	-68.8		137.8	556.9	195.5	5.1	1.000031
59500.0	78.8	-68.5		134.2	557.3	178.0	7.2	1.000030
60000.0	76.9	-68.3		130.7	557.6	174.6	7.0	1.000029
60500.0	74.9	-68.1		127.5	557.9	172.1	6.8	1.000028
61000.0	73.1	-66.9		123.5	559.4	172.4	6.2	1.000027
61500.0	71.3	-65.2		119.4	561.8	177.5	5.6	1.000027
62000.0	69.5	-63.7		115.7	563.8	225.6	6.8	1.000026
62500.0	67.9	-63.2		112.6	564.5	248.5	10.6	1.000025
63000.0	66.2	-62.6		109.6	565.5	241.9	10.2	1.000024

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

UPPER AIR DATA
2070000300
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
24 SEP. 79 1310 HRS MST
ASCENSION NO. 383

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEW POINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
03500.0	64.6	-62.1		106.7	560.0	231.9	9.5	1.000024
04000.0	63.1	-61.5		103.0	560.6	239.7	8.6	1.000023
04500.0	61.6	-60.9		101.0	567.5	258.0	8.2	1.000023
05000.0	60.1	-60.4		99.4	568.3	274.0	8.2	1.000022
05500.0	58.6	-59.8		95.7	569.0	287.3	8.4	1.000021
06000.0	57.2	-59.2		93.2	569.8	299.3	8.8	1.000021
06500.0	55.8	-58.7		90.7	570.5	309.9	2.3	1.000020
07000.0	54.5	-57.5		83.0	572.2	108.4	4.4	1.000020
07500.0	53.2	-55.9		85.3	574.2	112.7	7.4	1.000019
08000.0	52.0	-56.4		83.5	573.5	113.2	7.2	1.000019
08500.0	50.7	-57.0		81.6	572.8	117.6	7.0	1.000018
09000.0	49.5	-57.2		79.9	573.5	110.6	5.3	1.000018
09500.0	48.4	-56.9		77.9	573.0	97.2	3.7	1.000017
70000.0	47.3	-56.5		76.0	573.4	92.6	3.7	1.000017
70500.0	46.2	-56.2		74.1	573.8	102.3	5.2	1.000016
71000.0	45.1	-55.9		72.3	574.2	107.4	6.9	1.000016
71500.0	44.0	-55.6		70.5	574.7	111.2	9.0	1.000016
72000.0	43.0	-55.2		68.7	575.1	113.6	11.2	1.000015
72500.0	42.0	-54.9		67.0	575.5	115.4	13.4	1.000015
73000.0	41.0	-54.6		65.4	576.0	116.1	14.1	1.000015
73500.0	40.1	-54.3		63.6	576.4	116.7	14.8	1.000014
74000.0	39.1	-53.9		62.2	576.8	116.6	15.1	1.000014
74500.0	38.2	-53.6		60.6	577.2	115.2	14.4	1.000014
75000.0	37.3	-53.3		59.1	577.7	113.6	13.7	1.000013
75500.0	36.5	-53.0		57.7	578.1	111.1	12.9	1.000013
76000.0	35.6	-52.6		56.2	578.5	107.6	12.2	1.000013
76500.0	34.8	-52.3		54.9	578.9	104.2	11.5	1.000012
77000.0	34.0	-52.0		53.5	579.4	102.4	11.4	1.000012
77500.0	33.2	-51.7		52.2	579.8	100.6	11.3	1.000012
78000.0	32.4	-51.6		51.0	579.8	99.1	11.2	1.000011
78500.0	31.7	-51.9		49.8	579.5	98.3	10.8	1.000011
79000.0	30.9	-52.1		48.7	579.2	95.2	10.4	1.000011
79500.0	30.2	-52.3		47.7	578.9	91.0	10.3	1.000010
80000.0	29.5	-52.3		46.6	579.0	90.3	10.8	1.000010
80500.0	28.8	-52.1		45.5	579.2	90.2	11.2	1.000010
81000.0	28.2	-52.0		44.4	579.4	90.3	12.0	1.000010
81500.0	27.5	-51.8		43.3	579.6	91.4	13.1	1.000010
82000.0	26.9	-51.7		42.3	579.3	92.1	14.2	1.000009
82500.0	26.3	-51.5		41.3	580.0	91.7	15.2	1.000009
83000.0	25.7	-51.4		40.3	580.2	91.1	16.1	1.000009

UPPER AIR DATA
2070020000
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
24 SEP. 79 1310 HRS MST
ASCENSION NO. 303

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	25.1	-51.2		39.4	560.4	90.0	17.0	1.000009
64000.0	24.5	-51.1		39.4	560.6	89.7	17.8	1.000009
64500.0	23.9	-50.9		37.5	561.0	89.9	18.5	1.000008
65000.0	23.4	-50.7		36.0	561.2	89.0	19.1	1.000008
65500.0	22.9	-50.6		35.8	561.4	87.1	18.9	1.000008
66000.0	22.3	-50.4		34.9	561.4	86.1	18.7	1.000008
66500.0	21.8	-50.3		34.1	561.6	85.2	18.5	1.000008
67000.0	21.3	-50.1		33.3	561.6	83.4	18.4	1.000007
67500.0	20.8	-50.0		32.5	562.0	83.7	18.3	1.000007
68000.0	20.4	-49.3		31.7	562.2	80.0	18.2	1.000007
68500.0	19.9	-49.0		31.0	562.4	80.5	18.1	1.000007
69000.0	19.4	-49.4		30.3	562.7	87.1	18.1	1.000007
69500.0	19.0	-49.2		29.6	563.0	87.0	18.1	1.000007
70000.0	18.6	-49.0		28.9	563.2	87.9	18.3	1.000006
70500.0	18.1	-48.8		28.2	563.5	88.0	18.4	1.000006
71000.0	17.7	-48.6		27.5	563.8	88.1	18.6	1.000006
71500.0	17.3	-48.4		26.9	564.0	87.2	18.9	1.000006
72000.0	16.9	-48.2		26.2	564.3	85.7	19.4	1.000006
72500.0	16.5	-48.0		25.6	564.6	84.2	19.9	1.000006
73000.0	16.2	-47.0		24.9	565.9	83.9	20.2	1.000006
73500.0	15.8	-45.4		24.2	567.9	84.0	20.2	1.000005
74000.0	15.5	-43.9		23.5	569.9	85.7	20.3	1.000005
74500.0	15.1	-43.5		22.9	590.3	86.7	20.2	1.000005
75000.0	14.8	-43.5		22.4	590.4	88.0	19.6	1.000005
75500.0	14.5	-43.4		21.9	590.5	89.3	19.0	1.000005
76000.0	14.1	-43.3		21.4	590.6	91.0	18.5	1.000005
76500.0	13.8	-43.2		20.9	593.6	93.9	18.5	1.000005
77000.0	13.5	-43.1		20.5	590.9	100.7	18.7	1.000005
77500.0	13.2	-43.0		20.0	591.0	105.4	19.0	1.000004
78000.0	12.9	-43.0		19.6	591.1	106.1	20.1	1.000004
78500.0	12.6	-42.9		19.1	591.2	105.8	21.4	1.000004
79000.0	12.4	-42.8		18.7	591.3	105.5	22.7	1.000004
79500.0	12.1	-42.7		18.3	591.4	102.4	21.7	1.000004
80000.0	11.8	-42.6		17.9	591.5	93.5	18.8	1.000004
80500.0	11.6	-42.6		17.5	591.6	80.2	16.2	1.000004
81000.0	11.3	-42.5		17.1	591.7			1.000004
81500.0	11.1	-42.4		16.7	591.8			1.000004
82000.0	10.8	-42.3		16.3	591.9			1.000004
82500.0	10.6	-42.2		15.9	592.0			1.000004

STATION ALTITUDE 3989.00 FEET MSL
24 SEP. 79
ASCENSION NO. 303

MANDATORY LEVELS
2070020300
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 6

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		#IN. DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5121.	26.1	.7	19.	224.0	.7	
800.0	6655.	21.0	-1.1	25.	125.5	1.4	
750.0	8657.	15.8	-3.4	27.	111.6	5.3	
700.0	10570.	10.6	-5.8	31.	91.2	9.7	
650.0	12577.	5.7	-11.0	28.	79.2	11.2	
600.0	14705.	1.0	-20.1	19.	66.5	14.1	
550.0	16985.	-2.5	-26.2	14.	110.2	16.9	
500.0	19440.	-6.0	-30.7	14.	99.9	13.5	
450.0	22105.	-12.3	-34.6	13.	51.1	5.7	
400.0	25025.	-18.2	-38.4	15.	308.5	13.6	
350.0	28245.	-26.2	-44.7	16.	325.4	16.5	
300.0	31639.	-33.9			300.2	33.1	
250.0	35951.	-42.4			304.3	36.3	
200.0	40793.	-52.4			300.9	54.1	
175.0	43593.	-57.4			295.5	47.5	
150.0	46748.	-63.1			295.6	41.9	
125.0	50363.	-70.2			291.0	26.6	
100.0	54072.	-75.2			305.4	13.4	
80.0	59009.	-68.6			161.6	8.9	
70.0	61051.	-65.9			212.0	5.9	
60.0	64777.	-60.3			273.4	8.2	
50.0	68547.	-57.3			114.3	8.0	
40.0	73209.	-54.2			116.7	14.8	
30.0	79368.	-52.4			90.9	10.4	
25.0	83165.	-51.2			90.6	17.1	
20.0	87966.	-49.7			86.3	16.1	
15.0	94195.	-43.5			67.0	20.1	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

SIGNIFICANT LEVEL DATA

0.00024700
0.00000000

STATION ALTITUDE 4010.00 FEET MSL
24 SEP. 79 1245 HRS MST
ASCENSION NO. 5

TABLE 7

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
883.0	28.0	11.1	35.0
850.0	25.0	6.7	31.0
785.0	20.1	4.0	28.0
700.0	10.7	-4.5	34.0
608.0	.4	-7.8	34.0
594.2	-6	-15.0	33.0
590.8	-11	-22.8	16.0
564.2	.6	-23.0	14.0
540.4	-2.9	-26.0	14.0
503.0	-8.0	-33.7	14.0
477.4	-10.7	-32.9	14.0
454.5	-12.3	-33.3	15.0
411.2	-16.8	-37.2	15.0
400.0	-18.6	-38.1	16.0
363.2	-24.1	-42.1	17.0
324.6	-31.0	-47.9	17.0
303.4	-33.5	-50.1	17.0
300.0	-34.2		
283.0	-35.1		
277.2	-37.6		
250.0	-42.5		
239.0	-44.5		
209.0	-49.3		
200.0	-51.7		
172.5	-58.1		
160.0	-59.8		
150.0	-63.0		
133.0	-68.2		
123.4	-71.5		
115.2	-71.2		
100.0	-71.3		
55.0	-66.2		
72.4	-63.9		
70.0	-60.5		
67.0	-61.2		
59.0	-54.2		
53.6	-54.5		
50.0	-52.7		
33.4			
35.0			

GEODEIC COORDINATES
 32.88497 LAT DEG
 106.49714 LON DEG

SIGNIFICANT LEVEL DATA
 207020000
 NW 30

STATION ALTITUDE 4010.40 FEET MSL
 24 SEP 79 1245 HRS MST
 ASCENSION NO. 5

TABLE 7 (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
30.0 79725.0	-51.1	
20.0 86496.4	-48.8	
17.4 91523.5	-49.2	
13.0 98965.3	-41.8	

GEODETIC COORDINATES
32.68497 LAT DEG
106.49714 LONG DEG

UPPER AIR DATA
2370220005
NW 30

STATION ALTITUDE 4010.40 FEET MSL
24 SEP. 79
ASCESSION NO. 5 1245 HRS MST

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES TRUE)	SPEED KNOTS	INDEX OF REFRACTION
4010.4	663.3	23.0	35.0	1013.0	070.0	0	0	1.000262
4500.0	800.5	26.7	33.2	1004.0	676.3	13.3	0.3	1.000273
5000.0	953.6	25.3	31.4	991.8	674.6	13.3	0.7	1.000264
5500.0	838.9	24.2	30.3	978.8	673.2	13.3	1.1	1.000258
6000.0	824.3	23.1	29.6	965.6	671.8	352.5	2.2	1.000252
6500.0	810.0	22.0	29.2	952.6	670.3	344.6	3.6	1.000246
7000.0	795.9	20.9	28.5	939.8	669.2	341.6	3.8	1.000240
7500.0	782.0	19.7	28.2	927.3	667.8	340.0	3.6	1.000235
8000.0	768.1	18.3	29.2	915.5	666.1	341.2	2.4	1.000231
8500.0	754.4	16.3	30.1	903.8	664.3	353.0	0.8	1.000227
9000.0	741.0	15.3	31.0	892.3	662.6	159.0	1.2	1.000223
9500.0	727.8	13.9	32.0	881.0	660.9	137.4	2.4	1.000220
10000.0	714.9	12.4	32.9	869.9	659.2	131.8	3.1	1.000216
10500.0	702.2	11.0	33.8	858.9	657.4	116.6	3.2	1.000212
11000.0	689.3	9.6	36.2	847.3	655.8	93.6	3.4	1.000209
11500.0	676.5	8.2	38.8	835.7	654.2	89.3	4.3	1.000206
12000.0	664.1	6.9	41.5	824.3	652.7	84.9	5.7	1.000204
12500.0	651.9	5.3	44.1	813.1	651.1	83.8	7.9	1.000201
13000.0	639.9	4.1	46.7	802.1	649.5	86.6	10.1	1.000198
13500.0	628.1	2.8	49.4	791.2	647.6	88.1	12.3	1.000195
14000.0	616.5	1.4	52.0	780.5	646.2	90.3	14.2	1.000192
14500.0	605.1	0.1	49.6	769.8	644.7	93.6	15.8	1.000187
15000.0	593.7	-0.7	30.6	753.3	643.4	101.6	15.7	1.000178
15500.0	582.5	0	14.0	740.6	644.8	110.1	15.6	1.000170
16000.0	571.5	-0.3	14.0	729.2	643.7	113.1	15.6	1.000167
16500.0	560.7	-1.2	14.0	717.8	642.7	115.3	15.6	1.000164
17000.0	550.1	-2.1	14.0	706.6	641.6	112.9	15.7	1.000161
17500.0	539.7	-3.0	14.0	695.6	640.5	111.3	15.6	1.000159
18000.0	529.4	-4.3	14.0	685.5	639.0	109.6	15.5	1.000156
18500.0	519.2	-5.5	14.0	675.6	637.5	109.3	15.4	1.000153
19000.0	509.2	-6.8	14.0	665.8	635.9	108.7	15.1	1.000151
19500.0	499.5	-8.1	14.0	656.1	634.4	107.1	14.4	1.000149
20000.0	489.7	-9.2	14.0	646.2	633.4	105.1	12.9	1.000146
20500.0	480.2	-10.4	14.0	636.4	631.6	102.0	9.9	1.000144
21000.0	470.8	-11.2	14.3	626.8	630.7	93.4	6.3	1.000141
21500.0	461.5	-11.6	14.7	615.0	629.9	43.7	2.7	1.000139
22000.0	452.5	-12.5	15.0	604.6	629.0	336.6	4.1	1.000137
22500.0	443.5	-13.4	15.0	594.6	627.9	321.9	6.2	1.000134
23000.0	434.7	-14.3	15.0	584.6	626.9	314.3	8.5	1.000132
23500.0	426.0	-15.2	15.0	575.2	625.8	309.6	10.8	1.000130

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LONG DEG

UPPER AIR DATA
2670220005
NW 30

STATION ALTITUDE 4010.40 FEET MSL
24 SEP. 79 1245 HRS MST
ASCENSION NO. 5

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, SPEED DEGREES, KNOTS	INDEX OF REFRACTION
24000.0	417.6	-16.1	15.0	565.8	624.7	308.0 13.4	1.000128
24500.0	409.2	-17.1	15.2	559.7	623.4	310.3 16.1	1.000125
25000.0	401.0	-18.4	15.9	545.3	621.8	310.3 18.2	1.000123
25500.0	392.9	-19.6	16.2	539.7	620.4	309.2 19.5	1.000121
26000.0	384.9	-20.8	16.4	531.2	618.9	308.4 20.1	1.000119
26500.0	377.0	-22.0	16.6	522.6	617.5	307.7 20.1	1.000117
27000.0	369.3	-23.1	16.8	514.3	616.0	308.9 19.8	1.000116
27500.0	361.6	-24.3	17.0	506.4	614.5	312.3 19.2	1.000114
28000.0	354.2	-25.7	17.0	498.5	612.9	315.5 19.4	1.000112
28500.0	346.8	-27.0	17.0	490.7	611.3	317.8 21.0	1.000110
29000.0	339.5	-28.3	17.0	483.0	609.7	318.7 22.6	1.000108
29500.0	332.5	-29.6	17.0	475.4	608.1	318.5 24.3	1.000106
30000.0	325.5	-30.9	17.0	468.0	606.4	314.4 26.0	1.000105
30500.0	318.5	-31.9	17.0	459.9	605.2	309.1 27.9	1.000103
31000.0	311.8	-32.6	17.0	451.9	604.0	304.8 29.9	1.000101
31500.0	305.2	-33.7	13.7**	444.0	602.8	302.6 32.6	1.000099
32000.0	298.6	-34.3		435.5	602.1	301.0 35.3	1.000097
32500.0	292.2	-34.8		427.1	601.4	301.3 37.1	1.000095
33000.0	285.9	-35.7		419.4	600.3	301.8 38.8	1.000093
33500.0	279.7	-37.0		412.7	599.6	303.3 40.4	1.000092
34000.0	273.6	-38.2		405.7	597.1	305.0 42.0	1.000090
34500.0	267.6	-39.3		398.6	595.8	305.9 43.0	1.000089
35000.0	261.7	-40.3		391.6	594.4	306.4 43.8	1.000087
35500.0	255.9	-41.4		384.7	593.1	305.7 43.8	1.000086
36000.0	250.3	-42.4		378.0	591.7	303.9 43.3	1.000084
36500.0	244.7	-43.4		371.1	590.4	302.2 43.0	1.000083
37000.0	239.3	-44.5		364.5	589.2	301.9 43.2	1.000081
37500.0	233.8	-45.3		357.5	588.1	301.5 43.5	1.000080
38000.0	228.6	-46.1		350.7	587.0	301.4 46.0	1.000078
38500.0	223.4	-46.9		344.0	586.0	301.3 49.1	1.000077
39000.0	218.3	-47.7		337.4	584.9	300.9 52.1	1.000075
39500.0	213.4	-48.6		331.0	583.8	300.4 55.1	1.000074
40000.0	208.5	-49.4		324.7	582.7	300.0 57.2	1.000072
40500.0	203.7	-50.7		319.1	581.1	299.5 57.1	1.000071
41000.0	199.0	-51.9		313.4	579.5	299.1 57.1	1.000070
41500.0	194.4	-52.9		307.5	578.1	298.8 55.9	1.000068
42000.0	189.8	-54.0		301.7	576.8	298.1 54.7	1.000067
42500.0	185.4	-55.0		295.0	575.4	297.4 53.1	1.000066
43000.0	181.0	-56.0		290.4	574.0	296.4 51.3	1.000065
43500.0	176.8	-57.1		285.0	572.7	295.4 49.5	1.000063

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4010.40 FEET MSL
24 SEP. 79 1245 HRS MST
ASCENSION NO. 5

UPPER AIR DATA
257022005
NW 30

GEODETTIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/S	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4400.0	172.6	-58.1		279.6	571.3	294.3	47.8	1.000062
4500.0	169.5	-58.5		279.6	570.6	293.2	46.1	1.000061
4600.0	164.5	-59.2		267.6	569.9	292.6	45.6	1.000060
4700.0	160.5	-59.7		262.6	569.1	292.5	45.3	1.000058
4800.0	156.7	-60.8		257.1	567.6	292.9	44.0	1.000057
4900.0	152.9	-62.1		252.3	566.0	294.3	41.4	1.000056
5000.0	149.2	-63.2		247.6	564.4	295.6	36.8	1.000055
5100.0	145.5	-64.3		242.8	563.0	297.5	37.9	1.000054
5200.0	141.9	-65.4		238.0	561.5	299.4	37.3	1.000053
5300.0	138.4	-66.5		233.4	560.0	300.5	36.5	1.000052
5400.0	135.0	-67.6		228.9	558.5	300.2	35.4	1.000051
5500.0	131.7	-68.3		223.9	557.6	299.9	34.4	1.000050
5600.0	128.4	-68.5		219.5	557.3	297.0	32.3	1.000049
5700.0	125.1	-69.2		215.8	556.3	291.5	29.5	1.000048
5800.0	122.0	-69.9		209.1	555.4	284.6	27.0	1.000047
5900.0	118.9	-70.6		204.6	554.4	283.9	27.1	1.000046
6000.0	115.9	-71.3		200.1	553.5	283.2	27.3	1.000045
6100.0	113.0	-71.5		195.2	553.3	285.7	26.5	1.000043
6200.0	110.2	-71.4		190.2	553.3	292.6	24.6	1.000042
6300.0	107.4	-71.4		185.5	553.4	300.6	23.1	1.000041
6400.0	104.6	-71.3		180.6	553.5	301.0	20.5	1.000040
6500.0	102.0	-71.2		176.0	553.6	300.0	17.6	1.000039
6600.0	99.4	-71.2		171.5	553.6	298.7	14.8	1.000038
6700.0	96.9	-71.3		167.2	553.5	298.0	13.2	1.000037
6800.0	94.5	-71.1		162.9	553.6	297.1	11.6	1.000036
6900.0	92.1	-70.6		158.4	554.4	299.7	9.8	1.000035
7000.0	89.8	-70.2		154.1	555.1	300.4	7.5	1.000034
7100.0	87.6	-69.7		149.9	555.7	307.1	5.3	1.000033
7200.0	85.4	-69.2		145.8	556.3	310.4	3.1	1.000032
7300.0	83.2	-68.8		141.9	557.0	269.5	1.3	1.000032
7400.0	81.2	-68.3		138.0	557.6	183.5	2.1	1.000031
7500.0	79.1	-67.8		134.5	558.2	183.1	3.5	1.000030
7600.0	77.2	-67.4		130.6	558.9	195.0	4.7	1.000029
7700.0	75.2	-66.9		127.1	559.5	202.0	5.9	1.000028
7800.0	73.3	-66.4		123.6	560.1	209.1	6.5	1.000026
7900.0	71.5	-65.4		119.9	561.6	215.5	7.1	1.000027
8000.0	69.8	-64.7		116.0	563.9			1.000026
8100.0	68.1	-61.8		112.2	566.4			1.000025
8200.0	66.5	-60.5		108.9	569.0			1.000024
8300.0	64.8	-60.7		105.5	571.9			1.000024

STATION ALTITUDE 4010.40 FEET MSL
24 SEP. 79 1245 HRS MST
ASCENSION NO. 5

UPPER AIR DATA
2670220000
NW 30

GEODETTIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION, DEGREES(TI)	SPEED KNOTS	
04000.0	05.3	-60.8		103.6	567.7			1.000023
04500.0	01.8	-60.9		101.4	567.5			1.000023
05000.0	00.3	-61.1		99.0	567.5			1.000022
05500.0	00.8	-61.1		98.6	567.5			1.000022
06000.0	07.4	-60.2		93.9	566.5			1.000021
06500.0	00.1	-59.5		91.3	569.7			1.000020
07000.0	04.7	-58.4		86.7	570.9			1.000020
07500.0	00.4	-57.5		86.3	572.1			1.000019
08000.0	02.1	-57.0		84.1	572.7			1.000019
08500.0	00.9	-56.6		81.9	573.3			1.000018
09000.0	09.7	-56.2		79.6	573.9			1.000018
09500.0	00.6	-56.0		77.9	574.1			1.000017
70000.0	07.4	-55.9		76.0	574.5			1.000017
70500.0	00.3	-55.7		74.2	574.5			1.000017
71000.0	00.2	-55.6		72.4	574.7			1.000016
71500.0	04.2	-55.4		70.6	574.9			1.000016
72000.0	00.1	-55.2		68.9	575.1			1.000015
72500.0	02.1	-55.1		67.3	575.3			1.000015
73000.0	01.1	-54.9		65.7	575.5			1.000015
73500.0	00.2	-54.8		64.1	575.7			1.000014
74000.0	09.2	-54.6		62.5	575.9			1.000014
74500.0	08.3	-54.4		61.0	576.1			1.000014
75000.0	07.4	-53.8		59.4	576.9			1.000013
75500.0	00.5	-53.2		57.9	577.7			1.000013
76000.0	00.7	-52.7		56.4	578.5			1.000013
76500.0	04.9	-52.5		55.0	579.7			1.000012
77000.0	04.1	-52.3		53.7	579.0			1.000012
77500.0	00.3	-52.0		52.4	579.3			1.000012
78000.0	02.5	-51.8		51.2	579.6			1.000011
78500.0	01.8	-51.6		50.0	579.8			1.000011
79000.0	01.0	-51.4		48.6	580.1			1.000011
79500.0	00.3	-51.2		47.0	580.4			1.000011
80000.0	09.6	-51.0		46.5	580.8			1.000010
80500.0	08.9	-50.9		45.4	580.8			1.000010
81000.0	00.3	-50.8		44.3	581.0			1.000010
81500.0	07.6	-50.6		43.3	581.1			1.000010
82000.0	07.0	-50.5		42.3	581.3			1.000009
82500.0	00.4	-50.4		41.3	581.5			1.000009
83000.0	00.8	-50.2		40.3	581.5			1.000009
83500.0	00.2	-50.1		39.4	581.8			1.000009

GEODETIC COORDINATES
32.68497 LAT DEG
105.49714 LONG DEG

UPPER AIR DATA
2070220000
100 30

STATION ALTITUDE 4010.40 FEET MSL
24 SEP. 79 1245 HRS MST
ASCENSION NO. 5

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	WET-BULB POINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SOUND SPEED KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES (TN)	SPEED KNOTS	
04000.0	24.6	-50.0			36.4	562.0			1.000009
04500.0	24.1	-49.8			37.5	562.2			1.000008
05000.0	23.5	-49.7			36.7	562.3			1.000008
05500.0	23.0	-49.6			35.8	562.5			1.000008
06000.0	22.4	-49.5			35.0	562.7			1.000008
06500.0	21.9	-49.3			34.1	562.8			1.000008
07000.0	21.4	-49.2			33.3	563.0			1.000007
07500.0	20.9	-49.1			32.6	563.2			1.000007
08000.0	20.5	-48.9			31.6	563.4			1.000007
08500.0	20.0	-48.8			31.1	563.5			1.000007
09000.0	19.5	-48.9			30.4	563.4			1.000007
09500.0	19.1	-48.9			29.7	563.4			1.000007
10000.0	18.7	-49.0			29.0	563.3			1.000006
10500.0	18.2	-49.1			28.4	563.2			1.000006
11000.0	17.6	-49.1			27.7	563.1			1.000006
11500.0	17.4	-49.2			27.1	563.0			1.000006
12000.0	17.0	-48.6			26.4	563.8			1.000006
12500.0	16.6	-47.9			25.7	564.7			1.000006
13000.0	16.3	-47.2			25.1	565.6			1.000006
13500.0	15.9	-46.5			24.5	566.5			1.000005
14000.0	15.5	-45.8			23.8	567.4			1.000005
14500.0	15.2	-45.2			23.2	568.2			1.000005
15000.0	14.9	-44.5			22.6	569.1			1.000005
15500.0	14.5	-43.8			22.1	570.0			1.000005
16000.0	14.2	-43.1			21.5	570.9			1.000005
16500.0	13.9	-42.4			21.0	571.7			1.000005

STATION ALTITUDE 4610.40 FEET MSL
24 SEP 79
ASCENSION NO. 5

MANDATORY LEVELS
2670220000
NW 30

GEODETIC COORDINATES
32.68497 LAT DEG
106.49714 LON DEG

TABLE 9

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5120.	25.0	51.	13.3	.8
800.0	6853.	21.2	29.	342.6	3.8
750.0	6670.	16.3	30.	40.8	.3
700.0	10575.	10.7	34.	113.9	3.2
650.0	12522.	5.3	45.	85.9	0.3
600.0	14733.	-3.	42.	96.3	10.0
550.0	16967.	-2.1	14.	112.9	15.7
500.0	19450.	-8.0	14.	107.2	14.4
450.0	22104.	-12.6	15.	331.7	4.6
400.0	25021.	-18.6	10.	310.1	10.3
350.0	28239.	-26.4	17.	310.7	20.2
300.0	31650.	-34.2		301.3	34.7
250.0	35949.	-42.5		303.6	43.3
200.0	40800.	-51.7		299.2	57.1
175.0	43094.	-57.5		295.0	43.8
150.0	46754.	-63.0		295.4	39.5
125.0	50382.	-69.3		291.4	29.5
100.0	54717.	-71.2		299.1	15.6
50.0	59074.	-68.0		173.6	3.0
70.0	61724.	-63.9			
50.0	64654.	-61.1			
50.0	6823.	-56.2			
40.0	73290.	-54.8			
30.0	79355.	-51.1			
25.0	83205.	-50.1			
20.0	86982.	-48.3			
15.0	94333.	-44.7			

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES
 53.16712 LAT DEG
 106.49511 LONG DEG

SIGNIFICANT LEVEL DATA
 267000009
 CALLEN

STATION ALTITUDE 4051.00 FEET MSL
 24 SEP. 79 1500 HRS MSL
 ASCENSION NO. 99

TABLE 10

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
881.7 4051.0	39.6	10.0	28.0
872.0 4374.5	28.6	5.5	20.0
850.0 5119.0	26.5	2.4	21.0
700.0 10379.8	10.5	-3.9	36.0
610.0 14201.2	.8	-8.4	50.0
601.4 14555.9	.2	-15.7	29.0
590.0 15160.5	.8	-23.0	14.0
564.4 16327.2	-1.1	-26.0	13.0
500.0 19456.0	-9.1	-31.0	14.0
477.8 20604.9	-12.1	-34.1	14.0
414.8 24128.0	-17.1	-37.5	15.0
400.0 25020.1	-19.7	-39.0	15.0
328.8 29691.4	-32.2	-49.4	16.0
313.6 30709.7	-35.1		
300.0 31801.2	-35.5		
295.4 32155.5	-35.3		
250.0 35910.5	-44.4		
200.0 40735.9	-53.7		
159.0 46632.3	-64.4		
139.2 46175.4	-68.1		
114.0 52070.7	-74.4		
112.9 52257.5	-73.2		
107.4 53219.0	-74.6		
106.3 53417.2	-73.2		
100.0 54555.7	-73.9		
81.8 58519.3	-68.3		
74.6 60342.5	-68.7		
70.0 62513.8	-64.5		
60.3 64641.4	-62.1		
58.4 65300.7	-58.5		
50.0 68525.3	-52.6		
40.6 72868.3	-56.8		
35.4 75769.0	-52.5		
30.0 79250.8	-54.3		
20.0 87569.2	-50.3		
13.6 96404.4	-45.0		

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

UPPER AIR DATA
2570030099
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
24 SEP. 79 1500 HRS MST
ASCENSION NO. 99

TABLE 11

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/S	WIND DATA DIRECTION, DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	861.7	30.6	28.0	1005.9	080.8	20.0	1.9	1.000275
4500.0	830.2	28.2	20.2	1000.2	677.5	59.4	1.0	1.000255
5000.0	833.4	26.0	20.8	987.8	675.8	135.3	1.4	1.000251
5500.0	836.5	25.4	22.1	975.3	674.2	154.9	2.8	1.000248
6000.0	833.7	23.9	23.4	962.9	672.5	149.5	3.0	1.000244
6500.0	809.2	22.4	24.8	950.7	670.9	136.0	2.9	1.000241
7000.0	785.0	21.0	26.2	938.0	669.2	126.2	2.8	1.000238
7500.0	761.0	19.5	27.5	926.6	667.5	118.2	2.7	1.000234
8000.0	767.2	18.1	25.9	913.1	665.8	114.0	2.6	1.000231
8500.0	753.7	16.6	30.3	903.6	664.1	109.5	2.6	1.000227
9000.0	740.4	15.1	31.7	892.3	662.4	102.0	2.7	1.000224
9500.0	727.4	13.7	33.0	881.1	660.7	92.6	3.5	1.000220
10000.0	714.6	12.2	34.4	870.1	658.9	90.4	4.9	1.000217
10500.0	702.0	10.7	35.6	859.3	657.2	91.1	6.8	1.000213
11000.0	689.1	9.4	37.6	847.0	655.6	91.9	8.5	1.000210
11500.0	675.5	8.1	39.5	835.9	654.1	92.5	10.2	1.000207
12000.0	664.0	6.8	41.4	824.4	652.6	94.4	12.0	1.000203
12500.0	651.8	5.5	43.3	813.1	651.0	96.1	13.7	1.000200
13000.0	639.8	4.2	45.2	801.9	649.5	98.6	15.3	1.000197
13500.0	628.0	2.8	47.0	791.0	647.9	100.0	16.1	1.000194
14000.0	615.4	1.5	48.9	780.1	646.3	102.7	15.2	1.000191
14500.0	603.0	.4	37.7	759.1	644.9			1.000183
15000.0	593.6	.6	18.6	754.6	644.6			1.000174
15500.0	582.4	.2	13.7	741.7	644.3			1.000170
16000.0	571.5	.6	13.3	730.0	643.4			1.000167
16500.0	560.6	-1.5	13.1	718.7	642.2			1.000164
17000.0	549.9	-2.8	13.2	706.3	640.7			1.000161
17500.0	539.3	-4.1	13.4	696.0	639.2			1.000159
18000.0	529.0	-5.4	13.5	687.9	637.6			1.000156
18500.0	518.9	-6.7	13.7	676.0	636.1			1.000154
19000.0	508.9	-7.9	13.9	668.2	634.6			1.000151
19500.0	499.1	-9.2	14.0	658.6	633.0			1.000149
20000.0	489.4	-10.5	14.0	648.9	631.4			1.000147
20500.0	479.8	-11.8	14.0	639.4	629.9			1.000144
21000.0	470.3	-12.7	14.1	629.6	628.3			1.000142
21500.0	460.9	-13.4	14.3	619.0	626.0			1.000139
22000.0	451.8	-14.1	14.4	607.4	627.1	329.1	4.5	1.000137
22500.0	442.8	-14.8	14.5	598.9	626.3	315.3	6.4	1.000135
23000.0	434.0	-15.5	14.7	586.7	625.4	307.5	9.0	1.000132
23500.0	425.4	-16.2	14.8	576.6	624.5	303.1	11.7	1.000130

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
24 SEP 79 1500 HRS MST
ASCENDING NO. 90

UPPER AIR DATA
2070030099
CALLEN

GEODETIC COORDINATES
33.10712 LAT DEG
100.49511 LON DEG

TABLE 11 (CONT)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GRAMS PER CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (IN) SPEED (KNOTS)	INDEX OF REFRACTION
24300.0	410.9	-10.9	15.0	560.7	625.7	305.9 14.5	1.000128
24500.0	409.6	-10.2	15.0	558.1	624.1	308.0 17.4	1.000126
25000.0	400.3	-19.6	15.0	550.0	620.3		1.000124
25500.0	392.0	-21.0	15.1	541.0	619.7		1.000122
26000.0	383.9	-22.3	15.2	533.1	617.0		1.000120
26500.0	375.9	-23.7	15.3	524.6	613.4		1.000118
27000.0	368.1	-25.0	15.4	516.7	613.7		1.000116
27500.0	360.3	-26.3	15.5	508.7	612.1		1.000114
28000.0	353.0	-27.7	15.6	500.9	610.4		1.000112
28500.0	345.7	-29.0	15.7	493.2	608.7		1.000110
29000.0	338.5	-30.3	15.9	485.6	607.1		1.000109
29500.0	331.5	-31.7	16.0	478.2	605.4		1.000107
30000.0	324.4	-33.0	11.4**	470.7	603.7		1.000105
30500.0	317.5	-34.4	4.0**	463.2	602.0		1.000103
31000.0	310.7	-35.2		454.8	601.0		1.000101
31500.0	304.0	-36.4		446.4	600.7		1.000099
32000.0	297.4	-38.4		438.8	600.7		1.000097
32500.0	290.9	-39.1		427.8	599.8		1.000095
33000.0	284.5	-37.3		420.3	598.2		1.000094
33500.0	278.3	-33.6		413.2	596.7		1.000092
34000.0	272.2	-39.8		406.2	595.2		1.000090
34500.0	266.2	-41.0		399.4	593.6	308.1 39.3	1.000089
35000.0	260.3	-42.2		392.7	592.1	308.3 40.8	1.000087
35500.0	254.6	-43.4		386.1	590.5	307.5 42.1	1.000086
36000.0	249.0	-44.5		379.4	589.0	305.8 43.2	1.000085
36500.0	243.3	-45.5		372.3	587.6	304.0 44.3	1.000083
37000.0	237.7	-46.5		365.4	586.5	302.0 45.5	1.000081
37500.0	232.3	-47.5		358.5	585.3	300.6 47.7	1.000080
38000.0	227.0	-48.4		351.9	584.0	300.1 51.1	1.000078
38500.0	221.2	-49.4		345.3	582.6	299.4 53.8	1.000077
39000.0	216.7	-50.4		338.9	581.5	298.5 55.7	1.000075
39500.0	211.8	-51.3		332.6	580.2	297.6 56.7	1.000074
40000.0	206.9	-52.3		326.4	579.0	296.4 55.9	1.000073
40500.0	202.2	-53.2		320.3	577.7		1.000071
41000.0	197.5	-54.2		314.1	576.5		1.000070
41500.0	192.7	-55.1		307.9	575.3		1.000069
42000.0	188.1	-56.0		301.8	574.1		1.000067
42500.0	183.6	-56.9		295.8	572.9		1.000066
43000.0	179.2	-57.8		289.9	571.7		1.000065
43500.0	175.0	-58.7		284.2	570.5		1.000063

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
24 SEP. 79 1500 HRS M31
ASCENSION NO. 99

UPPER AIR DATA
2070000099
JALLEN

GEODETIC COORDINATES
33.10712 LAT DEG
102.49511 LONG DEG

TABLE 11 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	"IND DATA" DIRECTION DEGREES (T.M.)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	170.8	-59.0		270.0	369.3			1.000002
44500.0	169.7	-60.5		273.1	368.1			1.000001
45000.0	162.7	-61.4		267.7	360.9			1.000060
45500.0	158.8	-62.3		262.4	353.7			1.000058
46000.0	155.0	-63.2		257.2	344.5			1.000057
46500.0	151.3	-64.1		252.1	335.3			1.000056
47000.0	147.0	-65.2		247.0	326.0			1.000055
47500.0	144.0	-66.4		242.5	317.1			1.000054
48000.0	140.4	-67.7		238.1	308.5			1.000053
48500.0	136.9	-68.6		233.2	299.1			1.000052
49000.0	133.4	-69.4		228.2	289.0			1.000051
49500.0	130.1	-70.2		223.3	279.9			1.000050
50000.0	126.8	-71.1		218.5	270.8			1.000049
50500.0	123.6	-71.9		213.6	261.7			1.000048
51000.0	120.4	-72.7		209.3	251.6			1.000047
51500.0	117.4	-73.5		204.8	241.5		16.0	1.000046
52000.0	114.4	-74.3		200.4	231.4		23.3	1.000045
52500.0	111.5	-75.6		194.6	221.2		28.9	1.000043
53000.0	108.6	-74.3		190.3	211.4		30.3	1.000042
53500.0	105.8	-73.2		184.5	201.6		31.6	1.000041
54000.0	103.1	-73.5		180.0	191.4		27.2	1.000040
54500.0	100.5	-73.5		175.7	181.7		18.3	1.000039
55000.0	99.0	-73.5		170.8	171.7		12.0	1.000038
55500.0	95.5	-72.6		163.9	161.7		11.9	1.000037
56000.0	93.1	-71.9		161.1	151.7		11.9	1.000036
56500.0	90.7	-71.2		158.5	141.7		10.1	1.000035
57000.0	88.4	-70.5		152.0	131.6		8.5	1.000034
57500.0	86.2	-69.8		147.6	121.5		7.3	1.000033
58000.0	84.0	-69.0		143.4	111.4		6.4	1.000032
58500.0	81.9	-68.3		139.3	101.3		6.0	1.000031
59000.0	79.8	-68.4		135.8	91.4		6.0	1.000030
59500.0	77.3	-69.5		132.3	81.5		6.1	1.000030
60000.0	75.9	-68.6		129.3	71.6		6.6	1.000029
60500.0	74.0	-68.2		125.6	61.7		7.6	1.000028
61000.0	72.2	-68.5		121.7	51.8		8.5	1.000027
61500.0	70.4	-64.9		117.0	41.9		9.2	1.000026
62000.0	68.7	-64.2		114.5	32.0		10.0	1.000025
62500.0	67.0	-63.8		111.5	22.1		11.2	1.000025
63000.0	65.4	-63.4		108.0	12.2		12.4	1.000024
63500.0	63.5	-63.0		105.7	2.3		12.2	1.000024

AX. HAND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET ASL
24 SEP 79 1500 HRS MST
ASCESSION NO. 99

UPPER AIR DATA
2570000099
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 11 (CONT)

GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CELSIUS	REL. HUM. PERCENT	WIND DIRECTION DEGREES(T)	WIND SPEED KNOTS	INDEX OF REFRACTION
04000.0	99.2	-62.6	100.0	298.0	10.6	1.000023
04500.0	99.7	-62.2	100.0	298.7	9.0	1.000022
05000.0	99.3	-60.1	98.9	294.7	5.5	1.000022
05500.0	97.6	-58.5	93.9	322.5	2.1	1.000021
06000.0	99.5	-58.5	91.7	37.7	2.2	1.000020
06500.0	99.1	-58.5	89.5	79.2	3.9	1.000020
07000.0	99.6	-58.6	87.4	80.9	5.9	1.000019
07500.0	99.5	-58.6	85.3	92.5	6.0	1.000019
08000.0	99.6	-58.6	83.9	100.4	5.3	1.000019
08500.0	99.1	-58.6	81.3	109.5	4.6	1.000018
09000.0	98.9	-58.6	79.3	112.1	3.2	1.000018
09500.0	97.7	-58.2	77.3	118.5	1.9	1.000017
10000.0	97.6	-58.0	75.4	125.9	1.6	1.000017
10500.0	97.5	-57.8	73.0	121.5	4.2	1.000016
11000.0	97.4	-57.4	71.0	120.5	6.5	1.000016
11500.0	97.4	-57.4	70.0	119.0	7.2	1.000016
12000.0	97.2	-57.2	69.3	118.9	6.8	1.000015
12500.0	97.0	-57.0	68.0	115.2	6.5	1.000015
13000.0	96.9	-56.5	66.9	115.7	6.3	1.000014
13500.0	96.8	-55.9	65.2	119.4	6.2	1.000014
14000.0	96.7	-55.1	63.9	118.0	6.3	1.000014
14500.0	96.6	-54.4	59.9	113.0	8.2	1.000013
15000.0	96.7	-53.5	58.5	109.4	10.0	1.000013
15500.0	96.9	-52.7	56.7	105.2	11.2	1.000013
16000.0	96.9	-52.9	55.9	101.0	11.1	1.000012
16500.0	96.9	-52.9	55.9	97.0	11.0	1.000012
17000.0	96.9	-53.1	54.1	95.0	11.0	1.000012
17500.0	96.9	-53.4	52.7	94.4	11.0	1.000011
18000.0	96.9	-53.5	50.6	94.6	11.0	1.000011
18500.0	96.9	-53.5	48.4	94.6	11.0	1.000011
19000.0	96.9	-54.2	47.5	93.0	11.0	1.000011
19500.0	96.9	-54.2	46.1	93.0	10.9	1.000010
20000.0	96.9	-54.0	45.0	90.7	10.6	1.000010
20500.0	96.9	-53.7	43.9	97.6	10.4	1.000010
21000.0	96.9	-53.5	42.9	90.0	10.7	1.000010
21500.0	96.9	-53.5	41.0	93.0	11.7	1.000009
22000.0	96.9	-53.1	40.0	91.0	12.7	1.000009
22500.0	96.9	-52.0	38.0	84.0	12.7	1.000009
23000.0	96.9	-52.0	35.0	71.5	11.9	1.000009
23500.0	96.9	-52.4	33.9			

GEODETIC COORDINATES
33.16712 LAT DEG
105.49511 LONG DEG

UPPER AIR DATA
2070000000
JALLET

STATION ALTITUDE 4051.00 FEET MSL
25 SEP 79 1500 MRS NST
ASSIGNMENT NO. 49

TABLE 11 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY G/CM ³	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (T)	WIND SPEED KNOTS	INDEX OF REFRACTION
9400.0	24.1	-52.1		37.9	379.2	36.6	11.6	1.000008
9450.0	23.5	-51.9		37.0	379.5	55.2	12.4	1.000008
9500.0	23.0	-51.7		36.1	379.6	75.3	14.4	1.000008
9550.0	22.5	-51.4		35.3	380.1	69.2	17.6	1.000008
9600.0	21.9	-51.2		34.4	380.4	90.1	21.2	1.000008
9650.0	21.4	-51.0		33.6	380.7	105.9	23.6	1.000007
9700.0	20.9	-50.7		32.6	381.0	105.0	26.2	1.000007
9750.0	20.4	-50.5		32.0	381.5	110.7	27.9	1.000007
9800.0	20.0	-50.3		31.2	381.6	105.3	23.1	1.000007
9850.0	19.5	-50.1		30.5	382.0	100.1	18.5	1.000007
9900.0	19.1	-49.7		29.7	382.4	69.7	14.3	1.000007
9950.0	18.6	-49.3		29.0	382.6	65.1	14.1	1.000006
9000.0	18.2	-49.0		28.3	383.2	60.0	14.2	1.000006
9050.0	17.8	-48.7		27.7	383.6	70.2	14.3	1.000006
9100.0	17.4	-48.4		27.0	384.0	74.4	15.4	1.000006
9150.0	17.0	-48.1		26.3	384.5	73.4	16.8	1.000006
9200.0	16.6	-47.8		25.7	384.9	72.5	18.1	1.000006
9250.0	16.3	-47.5		25.1	385.3	73.4	19.7	1.000006
9300.0	15.9	-47.1		24.5	385.7	75.0	21.3	1.000006
9350.0	15.5	-46.8		23.9	386.1	70.3	23.0	1.000005
9400.0	15.2	-46.5		23.3	386.5			1.000005
9450.0	14.8	-46.2		22.6	386.9			1.000005
9500.0	14.5	-45.9		22.2	387.3			1.000005
9550.0	14.2	-45.6		21.7	387.7			1.000005
9600.0	13.9	-45.3		21.2	388.1			1.000005

STATION ALTITUDE 4051.00 FEET MSL
24 SEP. 79
ASCENDING 10. 99

MANDATORY LEVELS
0670000000
JLLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LONG DEG

TABLE 12

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR TEMPERATURE DEGREES CENTIGRADE	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	REL. HUM. PERCENT
850.0	5113.	26.5	142.4	1.7	21.
800.0	5049.	21.5	130.1	2.8	20.
750.0	4986.	16.2	107.5	4.6	31.
700.0	4920.	10.5	51.2	7.1	36.
650.0	4850.	5.3	98.0	14.0	44.
600.0	4780.	3.	9599.0	9999.0XX	27.
550.0	4710.	-2.8	9599.0	9999.0XX	13.
500.0	4640.	-9.1	9599.0	9999.0XX	14.
450.0	4574.	-14.2	325.5	4.6	14.
400.0	4507.	-19.7	9599.0	9999.0XX	15.
350.0	4437.	-25.2	9599.0	9999.0XX	10.
300.0	4363.	-30.5	300.2	43.0	
250.0	4289.	-34.4	9599.0	9999.0XX	
200.0	4215.	-38.7	9599.0	9999.0XX	
175.0	4142.	-42.5	9599.0	9999.0XX	
150.0	4068.	-46.4	9599.0	9999.0XX	
125.0	3994.	-50.5	9599.0	9999.0XX	
100.0	3920.	-54.3	9599.0	9999.0XX	
75.0	3846.	-58.4	294.1	17.0	
50.0	3771.	-62.5	237.2	0.0	
25.0	3696.	-66.5	268.1	9.4	
0.0	3621.	-70.5	290.4	7.5	
		-74.3	109.5	4.6	
		-78.3	118.9	0.3	
		-82.3	94.9	11.0	
		-86.3	61.2	12.5	
		-90.3	107.2	23.8	
		-94.3			
		-98.3			
		-102.3			
		-106.3			
		-110.3			
		-114.3			
		-118.3			
		-122.3			
		-126.3			
		-130.3			
		-134.3			
		-138.3			
		-142.3			
		-146.3			
		-150.3			
		-154.3			
		-158.3			
		-162.3			
		-166.3			
		-170.3			
		-174.3			
		-178.3			
		-182.3			
		-186.3			
		-190.3			
		-194.3			
		-198.3			
		-202.3			
		-206.3			
		-210.3			
		-214.3			
		-218.3			
		-222.3			
		-226.3			
		-230.3			
		-234.3			
		-238.3			
		-242.3			
		-246.3			
		-250.3			
		-254.3			
		-258.3			
		-262.3			
		-266.3			
		-270.3			
		-274.3			
		-278.3			
		-282.3			
		-286.3			
		-290.3			
		-294.3			
		-298.3			
		-302.3			
		-306.3			
		-310.3			
		-314.3			
		-318.3			
		-322.3			
		-326.3			
		-330.3			
		-334.3			
		-338.3			
		-342.3			
		-346.3			
		-350.3			
		-354.3			
		-358.3			
		-362.3			
		-366.3			
		-370.3			
		-374.3			
		-378.3			
		-382.3			
		-386.3			
		-390.3			
		-394.3			
		-398.3			
		-402.3			
		-406.3			
		-410.3			
		-414.3			
		-418.3			
		-422.3			
		-426.3			
		-430.3			
		-434.3			
		-438.3			
		-442.3			
		-446.3			
		-450.3			
		-454.3			
		-458.3			
		-462.3			
		-466.3			
		-470.3			
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